

#### DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

# NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

PCI Industries Inc. dba All-Lite Arch. Products 5101 Blue Mound Road Fort Worth, TX 76106

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Model ECV-645-MD Aluminum Louver** 

APPROVAL DOCUMENT: Drawing No. ECV-645-MD NOA, titled "ECV-645-MD", sheets 1 through 15 of 15, dated 08/27/2013, with revision 5 dated 10/10/2014, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 14-0605.12 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

MIAMI-DADE COUNTY

100 07 2015

NOA No. 15-0602.02 Expiration Date: January 22, 2020 Approval Date: August 13, 2015

Page 1

#### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### A. DRAWINGS "Submitted under NOA # 14-0605.12"

Drawing No. **ECV-645-MD NOA**, titled "ECV-645-MD", sheets 1 through 15 of 15, dated 08/27/2013, with revision 5 dated 10/10/2014, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

#### B. TESTS "Submitted under NOA # 14-0605,12"

- 1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 2) Large Missile Impact Test per FBC, TAS 201-94
  - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of Model ECV-645-MD Aluminum Louvers, prepared by Architectural Testing, Inc, Test Report No. **C8134.01-801-18**, dated 02/24/2014, signed and sealed by Vinu J. Abraham, P.E.

2. Test Report on High Velocity Wind Driven Rain Resistance per AMCA 550 of a Model ECV-645 Aluminum Louver, prepared by Architectural Testing, Inc, Test Report No. C3038.02-801-44, dated 11/02/2012, signed and sealed by Vinu J. Abraham, P.E.

### C. CALCULATIONS "Submitted under NOA # 14-0605,12"

- 1. ECV-545-MD louver structural calculations prepared by Rice Engineering, dated 10/22/2014, signed and sealed by Wayne K. Helmila, P.E.
- 2. ECV-545-MD louver calculations prepared by Rice Engineering, dated 05/15/2014, signed and sealed by L. David Rice, P.E.

#### D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

#### E. MATERIAL CERTIFICATIONS "Submitted under NOA # 14-0605.12"

1. Test report on impact test per AMCA 540 of a Model ECV-645-MD Aluminum Louver, prepared by Architectural Testing, Inc, Test Report No. C6155.01-801-18, dated 10/21/2013, signed and sealed by Vinu J. Abraham, P.E.

#### F. STATEMENTS

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by Rice Engineering, dated 05/22/2015, signed and sealed by L. David Rice, P.E.

#### "Submitted under NOA # 14-0605.12"

2. No financial interest letter issued by Rice Engineering, dated 05/15/2014, signed and sealed by L. David Rice, P.E.

Carlos M. Utrera, P.E. Product Control Examiner

NOA No. 15-0602.02

Expiration Date: January 22, 2020 Approval Date: August 13, 2015

SO ECV-645MD NOA Creation/Submittal

- 1. THIS NOA DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES OF 150 PSF AS TESTED IN ACCORDANCE WITH PROTOCOLS TAS 201, TAS 202, TAS 203, AMCA 540, & AMCA 550 FOR USE WITHIN HIGH VELOCITY HURRICANE-AFFECTED ZONES DEFINED BY THE FLORIDA BUILDING CODE.
- 2. ALL VARIATIONS ARE LARGE MISSILE IMPACT RESISTANT.
- 3. UNITS OF MEASURE ARE IN FRACTIONAL INCHES UNLESS OTHERWISE SPECIFIED.
- 4. IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS TRANSFERRED FROM THE BUILDING CONDITION.
- 5. IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.
- 6. TO PREVENT GALVANIC CORROSION, ELECTROCHEMICALLY DISSIMILAR MATERIALS IN CONTACT WITH ONE ANOTHER SHALL BE PROTECTED BY PAINT, GASKETING OR OTHER MEANS PER THE FLORIDA BUILDING CODE.
- 7. OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.
- 8. MULTI-SECTION WIDE AND HIGH LOUVER SYSTEMS ARE ALLOWABLE PROVIDED THE INDIVIDUAL SECTIONS ARE SUPPORTED PER THE DETAILS ON THIS DRAWING AND A SUITABLE SUPPORT STRUCTURE IS ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.

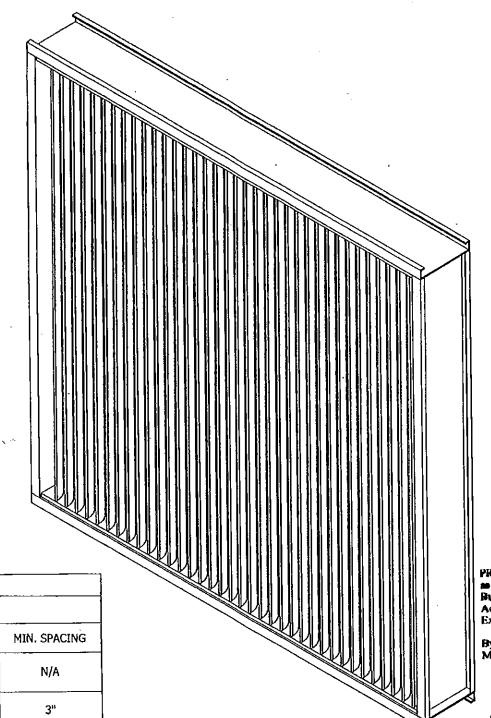
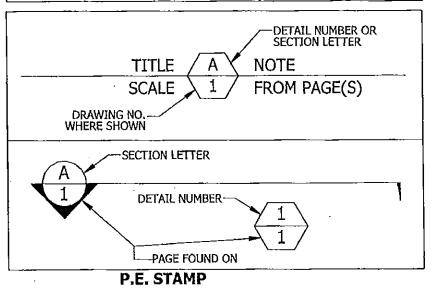


	TABLE 1		
SINGLE SECTION SIZE LIMITATIONS			
MAX DESIGN PRESSURE MIN (W X H) MAX (W X H)			
150 PSF	13 X 6-1/2	60 X 120	

TABLE 2				
MULTIPLE SECTION SIZE LIMITATIONS (MAX DESIGN PRESSURE: 150 PSF)				
SINGLE SECTION HIGH - UNLIMITED WIDTH	SEE SHEETS 11 & 12			



PRODUCT REVISED

so complying with the Florida
Building Code

Acceptance No 5-0602, 0

Expiration Date 01/22/20

By Mischi Date Product Control

Approved as complying with the Florida Building Code Date 01/22/2015
NOAH - 1005.12
Mismi Dan Product Control
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105 School Creek Trail
Luxemburg, WI 54217 UCI 4 2014 Phone: 920-845-1042
Fax: 920-845-1048
www.rlce-Inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

	TABLE	3		
	ANCHOR SCH	IEDULE		
SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MIN. SPACING
STEEL (12 GA MIN. THICKNESS Fy = 30 KSI MIN.)	#12-14 X 1" SELF-DRILLING TEK MACHINE SCREW (F-7)	FULL	3/8"	N/A
WOOD (S.G. = 0.43 MIN.)	1/2" X 3-1/2" LAG BOLT WITH FLAT WASHER (F-9)	3"	2-1/2"	3"
CONCRETE (fc = 2000 PSI MIN.)	1/2" X 5-1/2" HILTI KWIK-BOLT TZ EXPANSION ANCHOR (F-10)	3-1/4"	2-7/8" (SHEAR) 2-1/8" (TENSION)	6-1/2" (SHEAR) 9-1/2" (TENSION)
GROUT-FILLED CMU (f'm = 1500 PSI MIN.)	5/8" X 5-1/2" HILTI KWIK-BOLT III EXPANSION ANCHOR (F-8)	4"	4"	9-1/2"

5	CHANGED LOUVER MATERIAL TO 6063-T6	10/10/2014	WИ
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
. 2	REVISED INSTALLATION DETAILS;	1/27/2014	1G
1 .	INITIAL RELEASE	8/26/2013	LGH
REV.	DESCRIPTION	, DATE	DRAWN BY

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED: X.X  $\pm 0.030$  X.XX  $\pm 0.015$  X.XXX  $\pm 0.010$  ANGLE  $\pm 1^{\circ}$  FRACTION  $\pm 1/16$  MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS

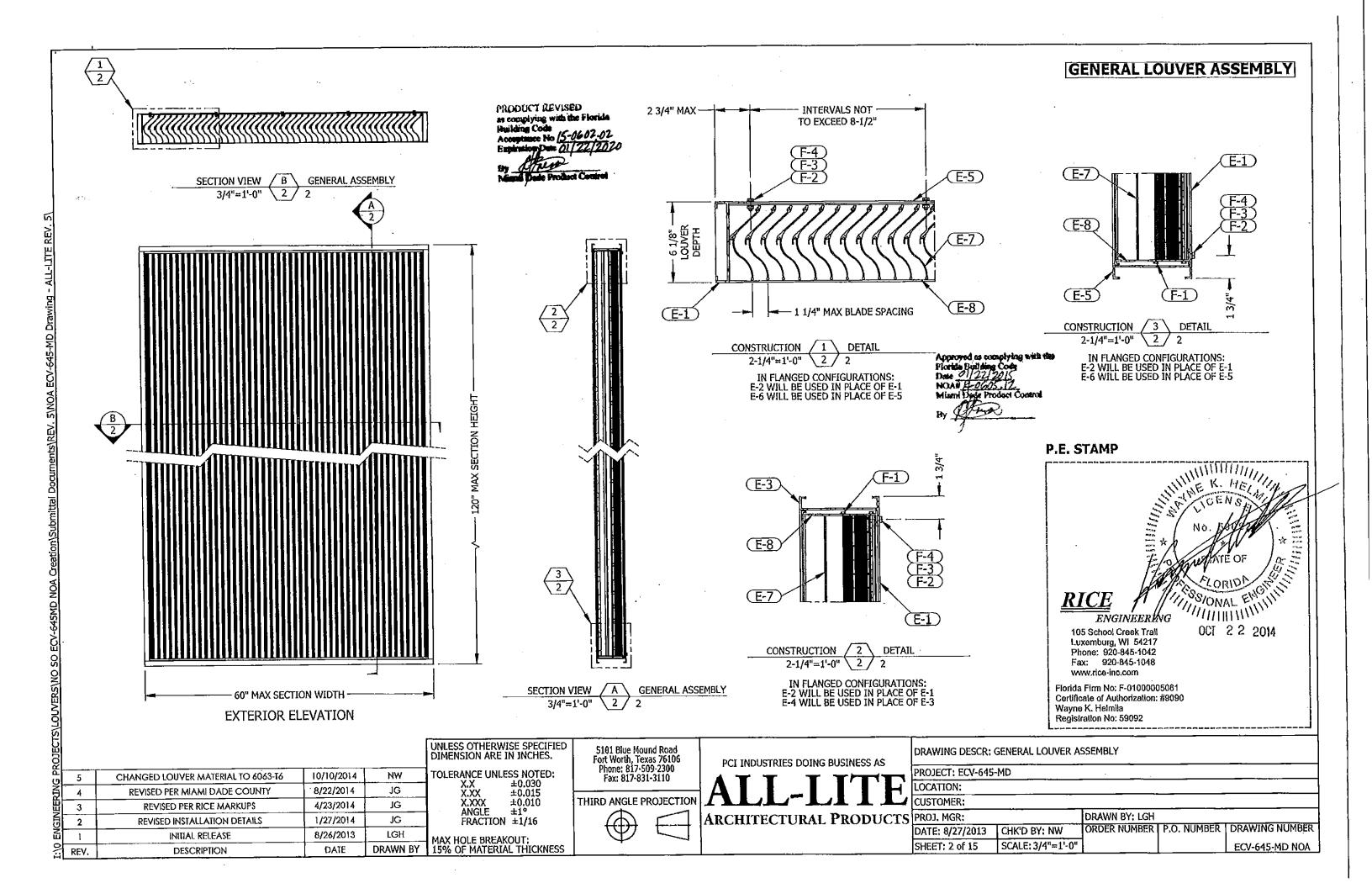
5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110

THIRD ANGLE PROJECTION

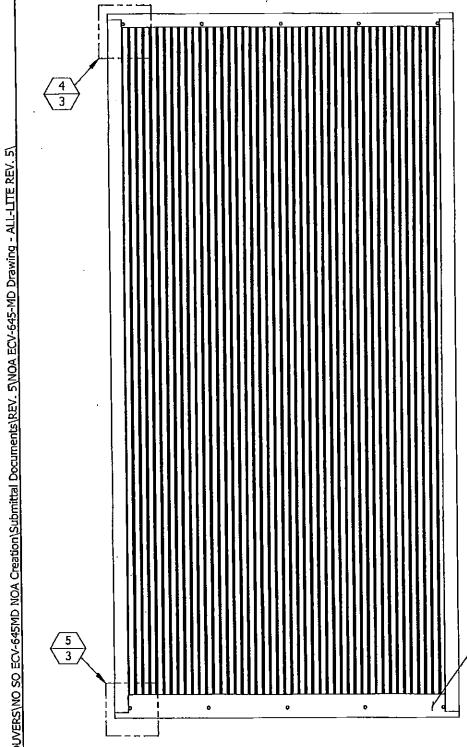


ARCHITECTURAL PRODUCTS

DRAWING DESCR:	COVER SHEET			
PROJECT: ECV-645	-MD	<u></u>	••	
LOCATION:				
CUSTOMER:		<u> </u>		
PROJ. MGR:		DRAWN BY: LGH		
DATE: 8/27/2013	CHK'D BY: NW	ORDER NUMBER P.	O. NUMBER DI	RAWING NUMBER
SHEET: 1 of 15	SCALE: NONE			CV-645-MD NOA



# **GENERAL LOUVER ASSEMBLY**



(E-3) (E-8) (E-1) **E-7** (E-7) E-1 TYP. ALL CORNERS CONSTRUCTION DETAIL

IN FLANGED CONFIGURATIONS: E-2 WILL BE USED IN PLACE OF E-1 E-4 WILL BE USED IN PLACE OF E-3

3 /

2-1/4" = 1'-0"

Approvad as complying with the Florida Building Code.
Date 012212015
NOAH14-0205-12
Mianai Dade Product Control Then

PRODUCT REVISED

as complying with the Florida Building Code Acceptance No 15-0602,02 Expiration Pare 01/22/2020

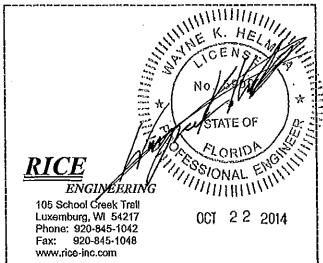
Miami Dade Product Control

P.E. STAMP

TYP, ALL CORNERS 1/8 Miami Dade County Product Control

> CONSTRUCTION 5 DETAIL 2-1/4"=1'-0" \ 3 / 3

IN FLANGED CONFIGURATIONS: E-2 WILL BE USED IN PLACE OF E-1 E-6 WILL BE USED IN PLACE OF E-5



Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila

Registration No: 59092

#### INTERIOR ELEVATION

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	5	CHANGED LOUVER MATERIAL TO 6063-T6	10/10/2014	Ν₩	1
FERING	4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG	
	3	REVISED PER RICE MARKUPS	4/23/2014	1G	i
	2	REVISED INSTALLATION DETAILS	1/27/2014	JG	
	1	INITIAL RELEASE	8/26/2013	LGH	
위	REV.	DESCRIPTION	DATE	DRAWN BY	ľ

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

ENGRAVED LABEL DETAIL

ALL-LITE

Ft Worth TX

SO# 123456

PCI Industries Inc d/b/a

**TOLERANCE UNLESS NOTED:** ±0.030 X'XX ±0.015 ±0.010 ±1° X.XXX ANGLE ±1° FRACTION ±1/16

MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS

5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110

Approved

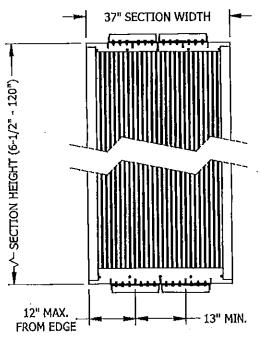
THIRD ANGLE PROJECTION



# PCI INDUSTRIES DOING BUSINESS AS ARCHITECTURAL PRODUCTS

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	DRAWING DESCR:	general Louver A	SSEMBLY	` <b></b> .	
	PROJECT: ECV-645	-MD			
l	LOCATION;				
•	CUSTOMER:				
5	PROJ. MGR:	· <u> </u>	DRAWN BY: LGH		
_	DATE: 8/27/2013	CHK'D BY: NW	ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER
	SHEET: 3 of 15	SCALE: 3/4"=1'-0"			ECV-645-MD NOA

# INSTALLATION CONFIGURATION



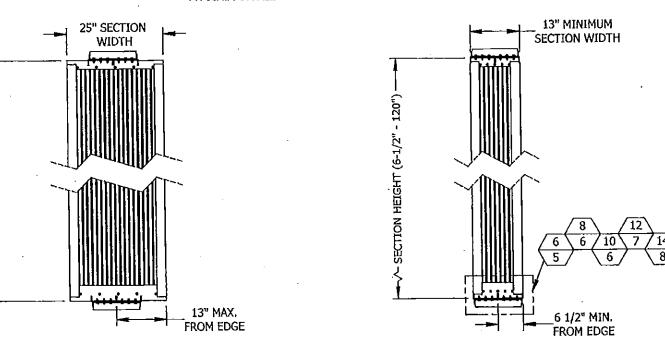
26" SECTION HTDIW 6 1/2" MIN. FROM EDGE

PRODUCT REVISED as complying with the Florida **Building Code** 

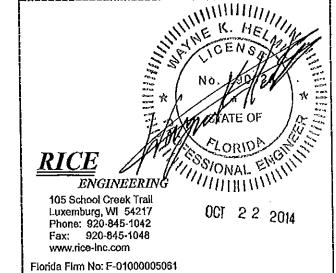
Approved as complying with the Florida Building Code
Date 0/22-2015
NOAR FOLIAS TO
Miami Dedg Product Control

ECV-645-MD NOA

INSTALLATION CONFIGURATION FOR LOUVER SECTIONS BETWEEN 26" AND 60" WIDE FOUR ATTACHMENT LOCATIONS TOTAL; 6-1/2 - 12" FROM EACH EDGE; 13" - 36" APART TYPICAL FOR ALL BUILDING CONDITIONS



P.E. STAMP



INSTALLATION CONFIGURATION FOR LOUVER SECTIONS BETWEEN 13" AND 26" WIDE TWO ATTACHMENT LOCATIONS TOTAL; 6-1/2" - 13" FROM EACH EDGE TYPICAL FOR ALL BUILDING CONDITIONS

~					-
ī	5	CHANGED LOUVER MATERIAL TO 6063-16	10/10/2014	NW	<b>਼</b> ਾ
ź	4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG	
H	3	REVISED PER RICE MARKUPS	4/23/2014	1G	1
ξ	2	DEVICED INSTALLATION DETAILS	1/27/2014	.IG	I

60" MAX, SECTION WIDTH

36" MAX

<sup>)</sup> BETWEEN ATTACHMENTS <sup>(\*</sup>

**/14** √ 9 /

12" MAX.

FROM EDGE

REVISED INSTALLATION DETAILS 8/26/2013 LGH **INITIAL RELEASE** DATE DRAWN BY DESCRIPTION REV.

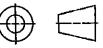
UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED: ±0.030  $\pm 0.015$ X,XXX ±0.010 ANGLE ±1° FRACTION ±1/16

MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS

5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110

THIRD ANGLE PROJECTIO



PCI INDUSTRIES DOING BUSINESS AS

ARCHITECTURAL PRODUCT

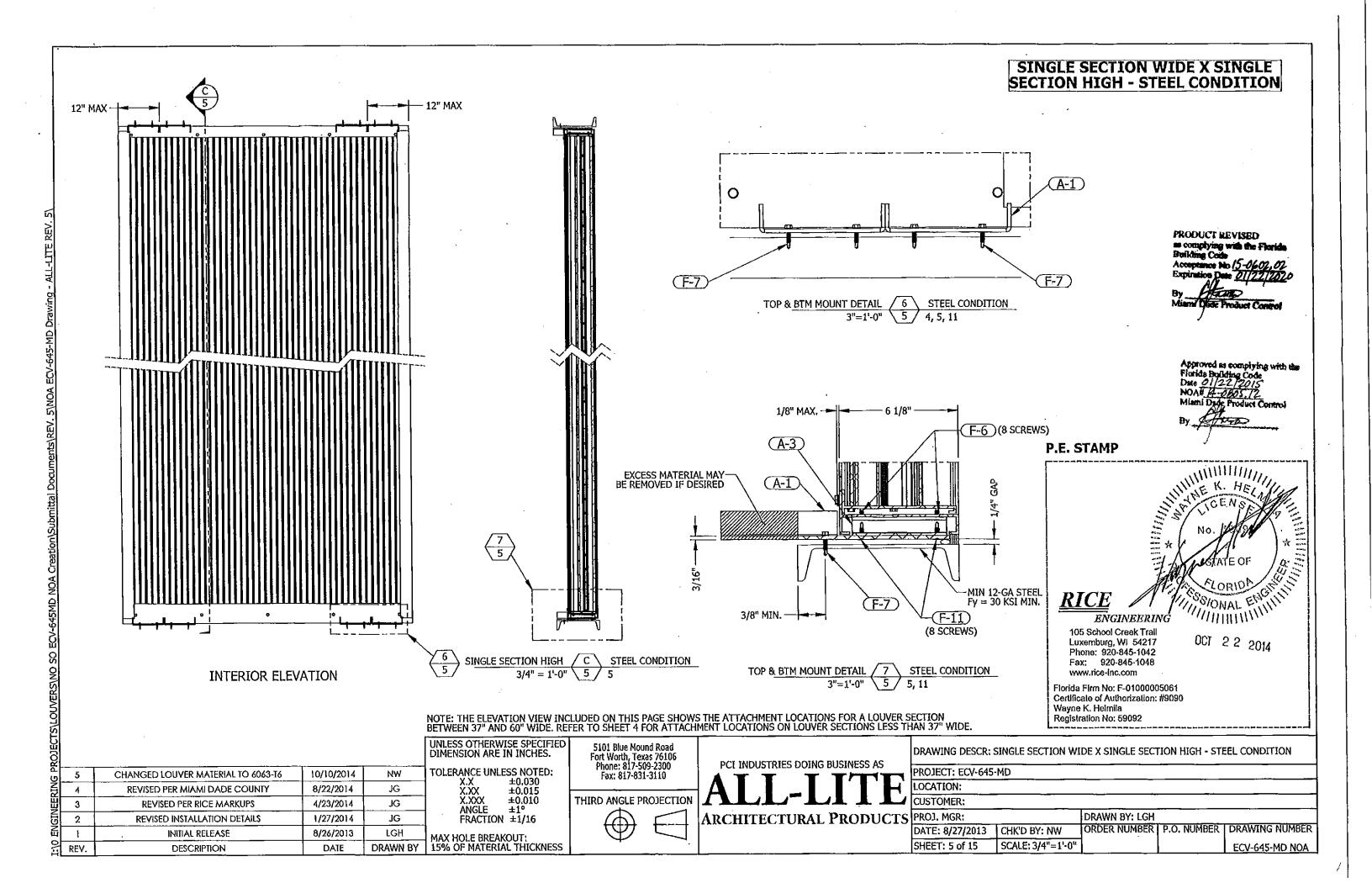
SCALE: 3/4"=1'-0"

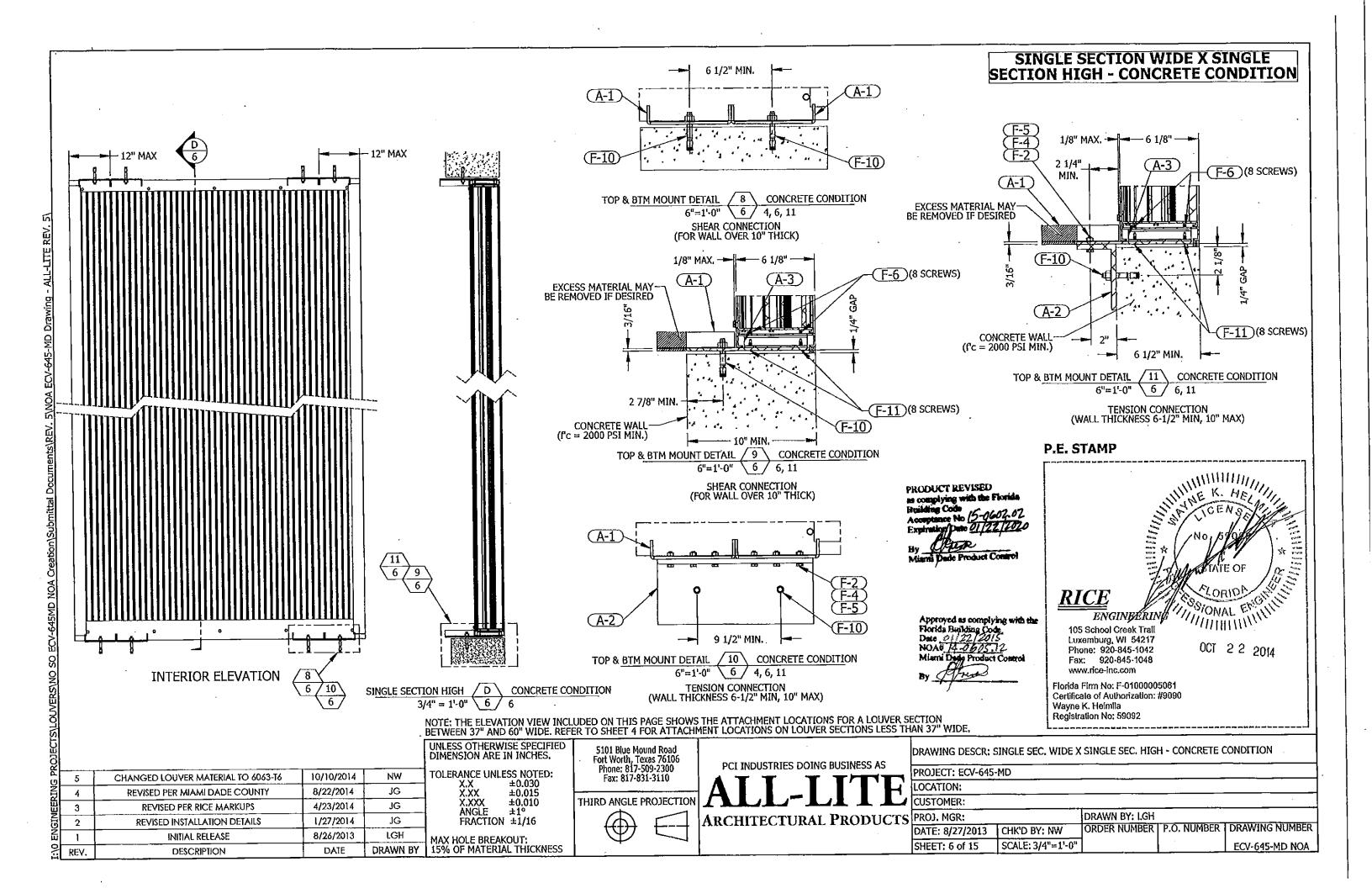
SHEET: 4 of 15

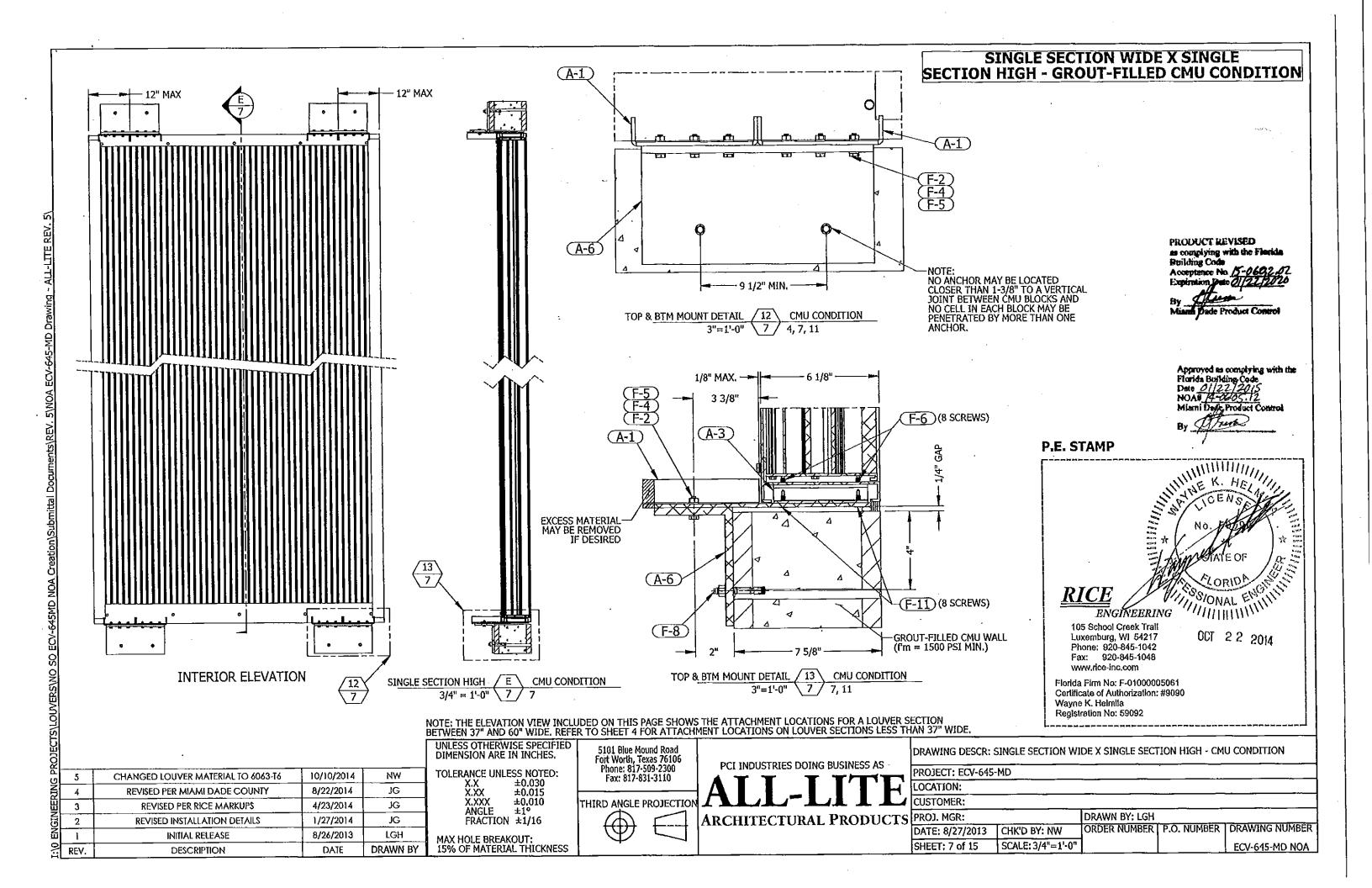
	DRAYYING DESCR.	TH21 METALITOM CO	MUIGORATION		
_	PROJECT: ECV-645	-MD			
⊣`	LOCATION:				
	CUSTOMER:	· **			
	PROJ. MGR:		DRAWN BY: LGH		
10		CHK'D BY: NW	ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER

Certificate of Authorization: #9090

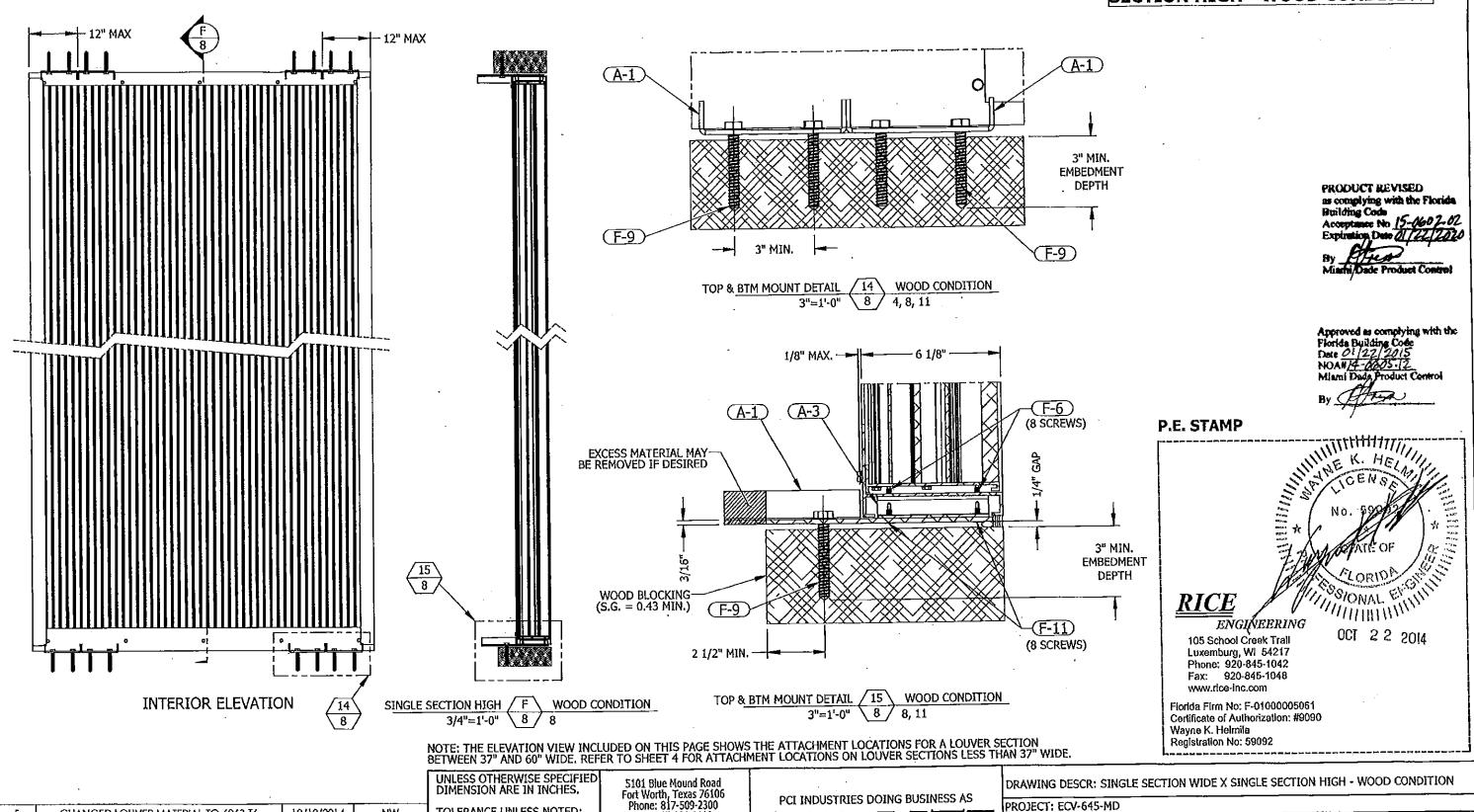
Wayne K. Helmila Registration No: 59092







# SINGLE SECTION WIDE X SINGLE SECTION HIGH - WOOD CONDITION



CHANGED LOUVER MATERIAL TO 6063-T6 10/10/2014 NW JG REVISED PER MIAMI DADE COUNTY 8/22/2014 REVISED PER RICE MARKUPS 3 4/23/2014 JG JG REVISED INSTALLATION DETAILS 1/27/2014 2 INITIAL RELEASE 8/26/2013 LGH DRAWN BY REV. DESCRIPTION DATE

TOLERANCE UNLESS NOTED:

X.X X.XX X.XXX ±0.030 ±0.015 ±0.010 ±1° ANGLE FRACTION ±1/16 MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS

Fax: 817-831-3110

THIRD ANGLE PROJECTION ARCHITECTURAL PRODUC

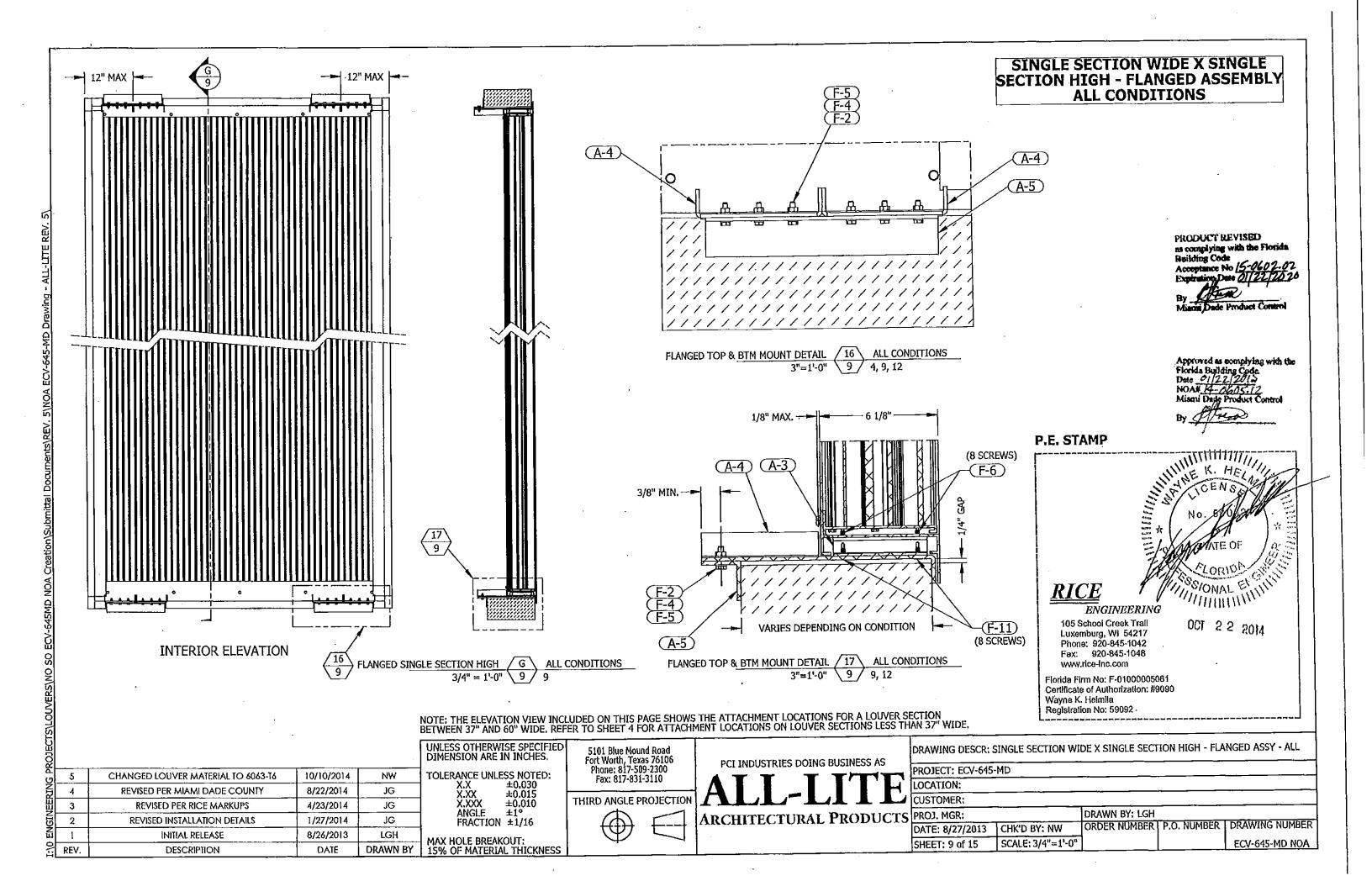
DRAWING DESCR: SINGLE SECTION	WIDE X SINGLE SEC	TION HIGH .	WOOD	CONDITION
PROJECT: ECV-645-MD	<u> </u>			

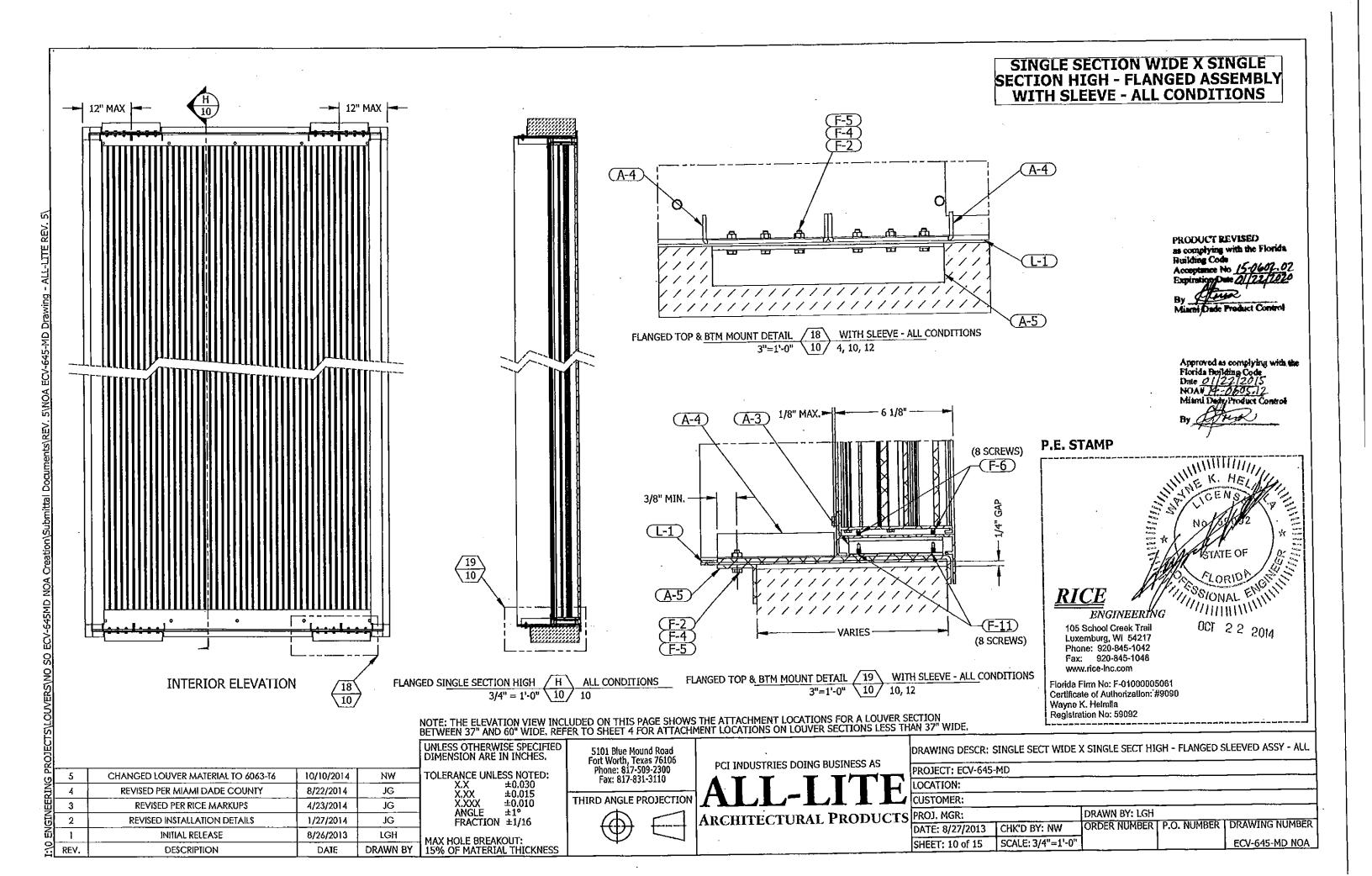
_	PROJECT: ECV-645-MD	
7	LOCATION:	
	CUSTOMER:	
TS	PROJ. MGR:	DRAWN BY: LGH
	DATE: 8/27/2013 CHKID BY: NW	ORDER NUMBER   P.O. NUMBER   DRAWING NUMBER

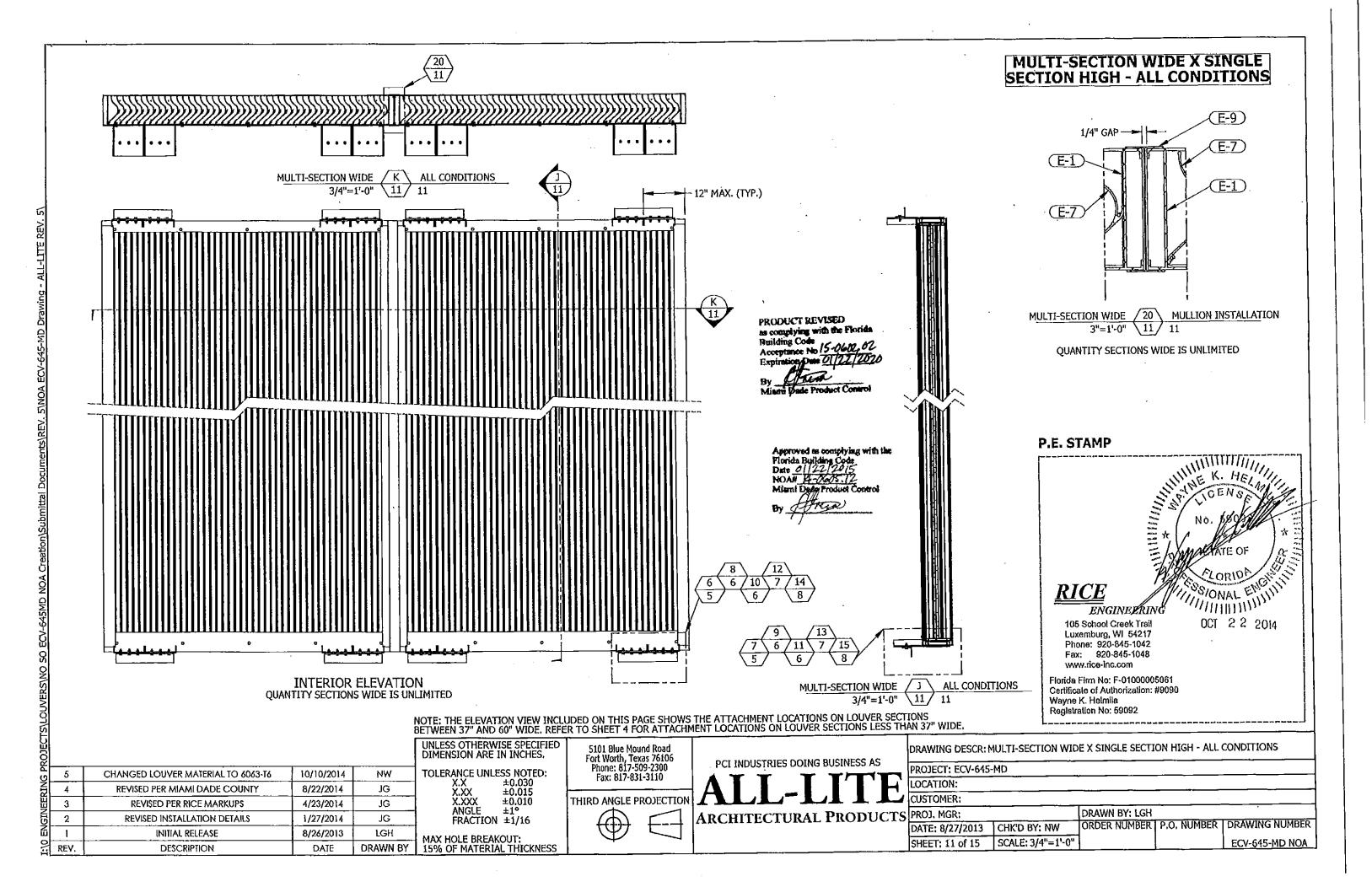
ECV-645-MD NOA

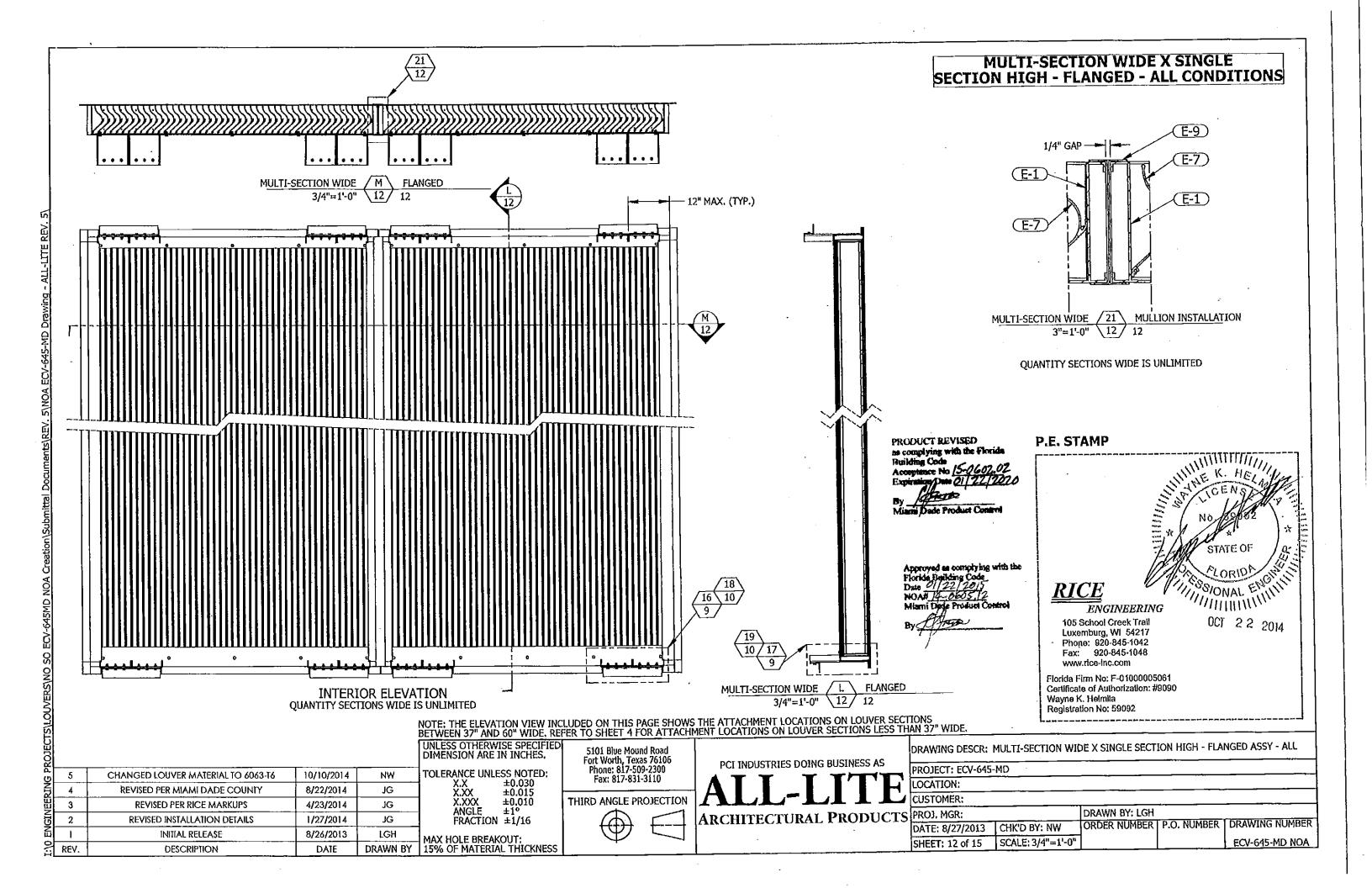
SCALE: 3/4"=1'-0"

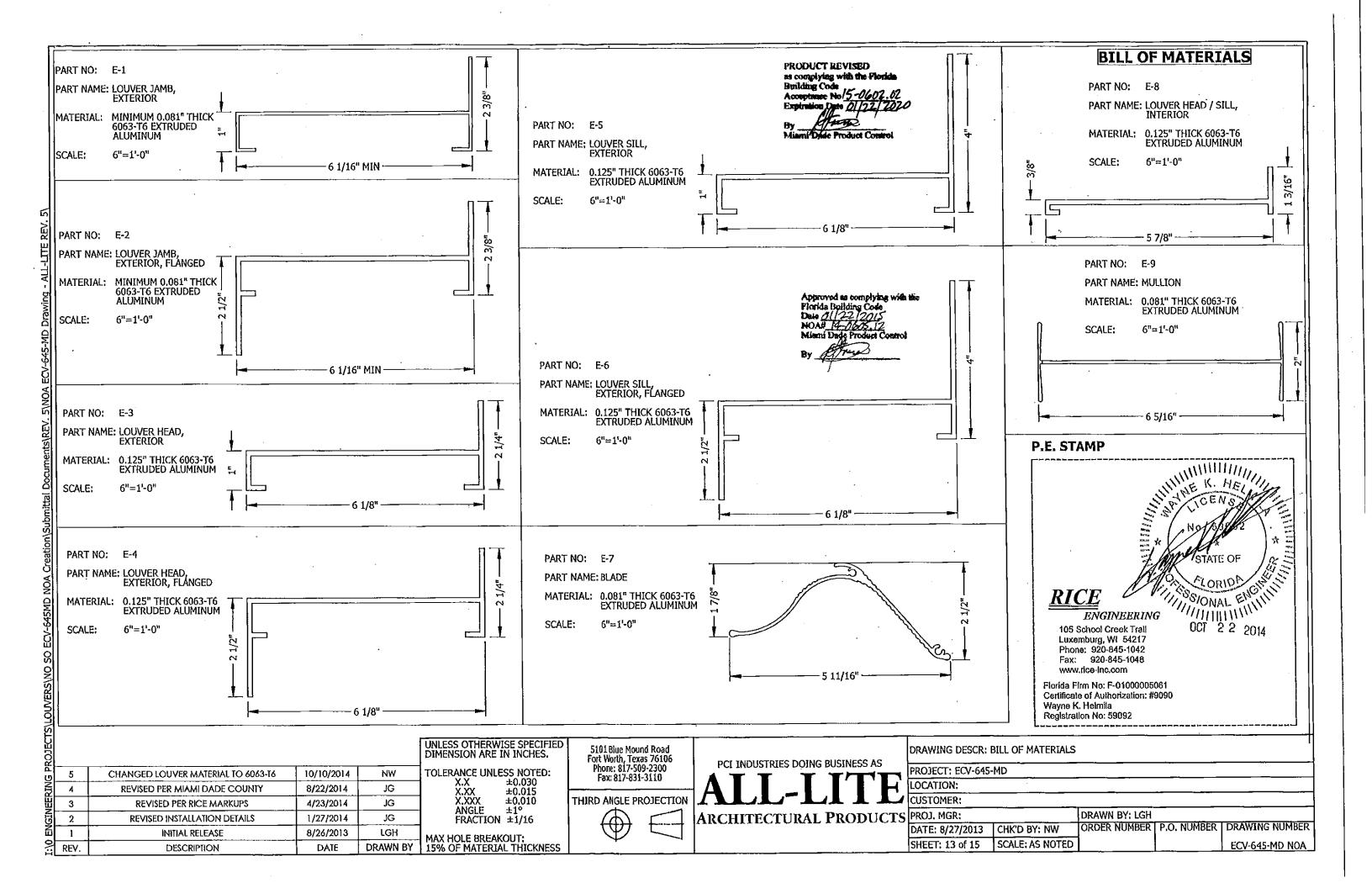
SHEET: 8 of 15

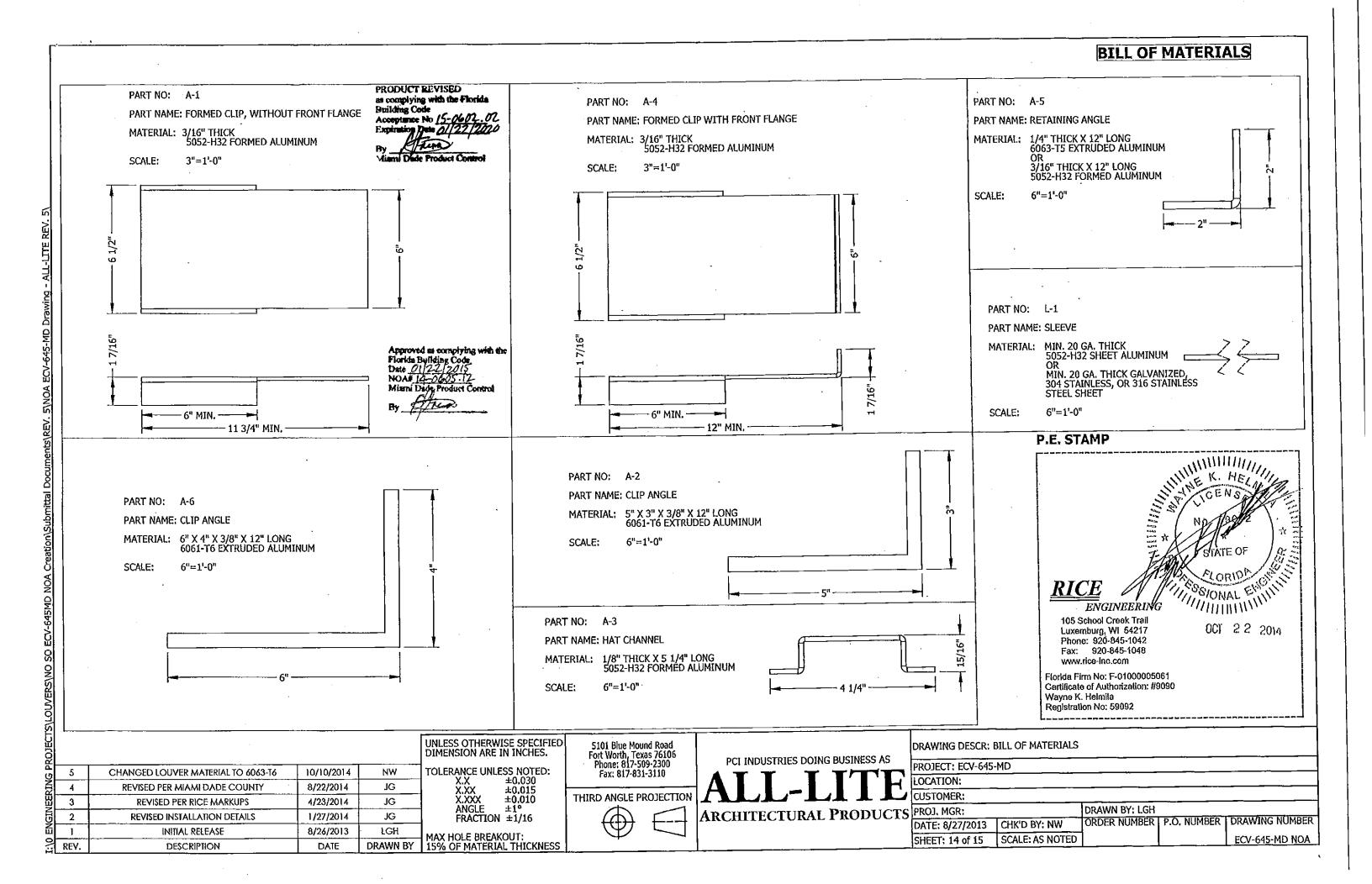












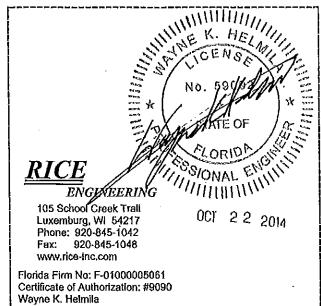
	MISCELLANEOUS FASTENERS				
PART NO	DESCRIPTION				
. F-1	#10-24 X 3/4" LONG, 6 LOBE DRIVE, 410 S.S., HWH, "F" POINT THREAD CUTTING MACHINE SCREW, BRIGHT HARDENED, PASSIVATED & WAXED, NO SERRATIONS UNDER HEAD, MADE IN U.S.A.				
F-2	WASHER, FLAT, 1/4" I.D. X 5/8" O.D., 18-8 S.S.				
F-3	BOLT, HEX HEAD, 1/4-20 UNC X 3/4" LONG, 18-8 S.S.				
F-4	NUT, HEX, 1/4-20 UNC, 18-8 S.S.				
F-5	BOLT, HEX HEAD, 1/4-20 UNC X 1" LONG, 304 S.S.				
F-6	#12-14 X 3/4" LONG, HWH, 410 S.S. SELF-DRILLING TEK MACHINE SCREW				
F-7	#12-14 X 1" LONG, HWH, SELF-DRILLING TEK MACHINE SCREW				
F-8	5/8" x 5-1/2" HILTI KWIK BOLT III EXPANSION ANCHOR				
F-9	1/2" X 3-1/2" LAG BOLT W/FLAT WASHER , 3" MINIMUM EMBEDMENT				
F-10	1/2" x 5-1/2" HILTI KWIK BOLT TZ EXPANSION ANCHOR				
F-11	#12-14 X 3/4" LONG FLAT HEAD, 410 S.S. SELF-DRILLING TEK MACHINE SCREW				

# P.E. STAMP

PRODUCT REVISED as complying with the Florida **Building Code** Miami Dade Product Control

Approved as complying with the Florida Building Code
Date 01/22/2015
NOAF/4-005,12
Miami Dada Product Control
By

SHEET: 15 of 15



ORDER NUMBER | P.O. NUMBER | DRAWING NUMBER

ECV-645-MD NOA

NOTE: ALL INSTALLATION FASTENERS AND ANCHORS SHOULD BE OF CORROSION-RESISTANT STEEL (STAINLESS, HOT-DIP GALVANIZED, OR ZINC-PLATED)

PROJECTS\LOUVERS\NO					יו ר
	5	CHANGED LOUVER MATERIAL TO 6063-T6	10/10/2014	NW	1.
Š	4	REVISED PER MIAMI DADE COUNTY	8/22/2014	· JG	1
빏	3	REVISED PER RICE MARKUPS	4/23/2014	JG	1
ENGINEERING	2	REVISED INSTALLATION DETAILS	1/27/2014	JG	1
	1	INITIAL RELEASE	8/26/2013	LGH	1
믦	REV.	DESCRIPTION	DATE	DRAWN BY	

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES. TOLERANCE UNLESS NOTED: X.X ±0.030 X.XX ±0.015

X.XXX ±0.010 ANGLE ±1° FRACTION ±1/16

MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS

5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110

THIRD ANGLE PROJECTION



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ļ	PCI INDUSTRIES DOING BUSINESS AS	PROJECT: ECV-645-MD			
4		LOCATION:	_		
		CUSTOMER:			
	ARCHITECTURAL PRODUCTS	PROJ. MGR:			
	,	DATE: 8/27/2013   CHK'D BY: NW	Т		

DRAWING DESCR:	BILL OF	MATERIALS

SCALE: AS NOTED

	l		 	
٦	PROJECT: ECV-645-MD			
ď	LOCATION:		 	,
٤	CUSTOMER:			
rc	PRO1. MGR:	DRAWN BY: LGH		

Registration No: 59092